

ABSTRACT

A retarded electric motor is disclosed which may be designed as a series motor or an asynchronous motor having a squirrel cage rotor. A valve means is provided for switching between motor operation and braking operation. During motor operation the motor is operated in a known configuration as series motor or as asynchronous motor. If configured as a series motor, the valve means (S_1 , S_2 , S_3) allows to bypass the armature (12) and to operate the motor (10) as an externally excited direct current generator when switching into braking operation. If configured as an asynchronous motor, a switch is utilized to disconnect at least two field windings from mains. A valve means is utilized to excite the motor externally from mains with a pulsating direct current during braking.